

## **Chronic Disease Focus Dialog Data Supplement**

Prepared by Community Health Statistics Unit 6/30/08

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## **North Coastal Region**

The North Coastal Region in San Diego County covers 255 square miles of urban and suburban areas. The region is bound to the North by Marine Corps Base Camp Pendleton and to the West by the Pacific Ocean. In 2006 there were an estimated 504,547 residents of region, with a population density of 2,751.2 persons per square mile of land area. The communities of the North Coastal Region range from wealthy coastal towns to poverty stricken areas both on the coast and inland.

While the majority of North Coastal residents are White, more than one out of every four residents is Hispanic (27%). According to CHIS, 41% of Hispanic residents visited a doctor's office when sick or needing health advice compared to 74% of White residents. One out of every four Hispanic residents did not have any usual source of care. In addition, more than half of all Hispanics (54%) were uninsured or underinsured, compared to just 15% of Whites. Seventy-two percent of Whites in this Region reported excellent or very good health status, compared to just 39% of Hispanics.

Notable disparities in maternal and child health among Hispanics exist in the North Coastal Region. Fetal mortality among Hispanics was higher in the North Coastal Region in 2005 (7.2 per 1,000) than among any other racial/ethnic group in San Diego County, and the percent of live births where the mother received early prenatal care was lower among Hispanics (71%) and Blacks (78%). Additionally, female breast cancer mortality rates are higher in the North Coastal Region (26.9 per 100,000) than in any other Region in San Diego County.

Pockets of Asian communities exist within the North Coastal Region. Five percent of the total population is Asian, of which 39% are Filipino, 14% Chinese and 17% Japanese. Asians/Pacific Islanders (APIs) had higher rates of hospitalization for arthritis (184 per 100,000) and dorsopathies (103 per 100,000) than APIs living in any other region. They also had higher rates of asthma hospitalization (60 per 100,000) than any other racial/ethnic group in the North Coastal Region (35 per 100,000). Compared to APIs living elsewhere in the County, North Coastal Region residents were discharged from the emergency department (ED) at the highest rate for Stroke (45 per 100,000) and the second highest rate for coronary heart disease (23 per 100,000).

## Medical Encounters and Death Due to Chronic Disease, San Diego County, North Coastal Region

	Total		Age Group							
	Number	Rate*	0-14	15-24	25-64	65+	Number	Rate*	Number	Rate*
			Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	630	126.9	<5	£	<5	£	71	28.3	559	998.4
Hospitalization	1,659	333.6	<5	£	<5	£	540	214.6	1,119	1976.3
ED Discharge	148	29.3	<5	£	<5	£	55	21.6	92	160.2
<b>Stroke†</b>										
Death	251	50.5	<5	£	<5	£	18	7.2	233	416.1
Hospitalization	893	179.6	<5	£	5	6.2	192	76.3	694	1225.7
ED Discharge	314	62.2	<5	£	5	6.1	89	34.9	219	381.3
<b>Diabetesµ</b>										
Death	63	12.7	<5	£	<5	£	16	6.4	47	83.9
Hospitalization	397	79.8	14	12.9	26	32.3	209	83.0	148	261.4
ED Discharge	444	88.0	12	11.0	29	35.2	217	85.0	186	323.9
<b>COPDβ</b>										
Death	160	32.2	<5	£	<5	£	7	2.8	153	273.3
Hospitalization	343	69.0	<5	£	<5	£	84	33.4	255	450.4
ED Discharge	608	122.3	47	42.9	48	58.2	266	104.2	247	430.1
<b>Asthmaα</b>										
Death	5	1.0	<5	£	<5	£	<5	£	<5	£
Hospitalization	173	34.8	45	41.5	10	12.4	70	27.8	48	84.8
ED Discharge	801	158.8	273	249.4	132	160.1	326	127.8	70	121.9

	Total		Gender				Race/Ethnicity							
	Number	Rate*	Male	Female	Male	Female	White	Black	Hispanic	API/Other ††	Number	Rate*	Number	Rate*
			Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	630	126.9	329	130.7	301	122.9	566	187.9	12	60.7	34	25.7	18	43.4
Hospitalization	1,659	333.6	1,102	437.2	557	227.1	1,361	453.5	26	132.8	137	102.1	135	322.8
ED Discharge	148	29.3	72	28.2	76	30.5	122	40.2	<5	£	13	9.5	10	22.6
<b>Stroke†</b>														
Death	251	50.5	96	38.1	155	63.3	217	72.0	6	30.4	19	14.4	9	21.7
Hospitalization	893	179.6	426	169.0	467	190.4	734	244.6	16	81.7	89	66.3	54	129.1
ED Discharge	314	62.2	134	52.4	179	71.9	255	84.0	8	40.1	31	22.7	20	45.2
<b>Diabetesµ</b>														
Death	63	12.7	32	12.7	31	12.7	44	14.6	<5	£	12	9.1	6	14.5
Hospitalization	397	79.8	230	91.3	166	67.7	221	73.6	39	199.2	95	70.8	42	100.4
ED Discharge	444	88.0	208	81.4	236	94.8	252	83.0	42	210.3	106	77.5	44	99.4
<b>COPDβ</b>														
Death	160	32.2	70	27.8	90	36.7	150	49.8	<5	£	9	6.8	<5	£
Hospitalization	343	69.0	133	52.8	210	85.6	299	99.6	5	25.5	21	15.7	18	43.0
ED Discharge	608	122.3	250	97.8	358	143.8	456	150.2	24	120.2	89	65.1	39	88.1
<b>Asthmaα</b>														
Death	5	1.0	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	173	34.8	54	21.4	119	48.5	110	36.6	9	46.0	29	21.6	25	59.8
ED Discharge	801	158.8	342	133.8	459	184.4	429	141.3	97	485.6	197	144.0	78	176.2

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 8/27/2007.

£ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown.

\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

µ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

## **North Inland Region**

The North Inland Region in San Diego County covers 2,373 square miles of urban, suburban, rural and remote areas. The region is bound to the North by Riverside County and to the East by Imperial County. In 2006 there were an estimated 546,619 residents with a population density of 231.7 persons per square mile of land area. Most residents are employed in management or professional jobs (38%), but many are also employed in sales and office (26%) and service (15%) occupations. More than 9% of the population earns income below the poverty level. Several Indian reservations are located within the rural areas of the North Inland Region. While data is limited, CHIS estimates more than 40% of all American Indian/Alaska Native residents have no usual source of care when sick or needing health advice.

The majority of North Inland residents are White (60%), but one quarter of all residents are Hispanic (26%). According to CHIS, more than one out of every four Hispanics in the North Inland Region has no usual source of care when sick or needing health advice. Only one in five use a doctor's office as a usual source of care, and half go to a community clinic. It was estimated that 42% of Hispanics were uninsured, and 21% were covered by Medicaid. Seventy-one percent of Whites in the North Inland Region reported excellent or very good health status, compared to 36% of Hispanics. Disparities in maternal and child health were apparent among Hispanics as well. Infant mortality among Hispanics in this Region was among the highest in San Diego County, with 6.1 deaths per 1,000 live births. Only 78% of Hispanic mothers received early prenatal care in the North Inland Region, compared to 93% of White mothers. More than 5% of all live births were to Hispanic girls aged 15 to 17 years.

Pockets of Asian communities exist within the North Inland Region. Eight percent of the population is Asian, the majority of whom are either Filipino (41%) or Chinese (16%). Asian/Pacific Islanders (APIs) here had a higher COPD death rate (17.6 per 100,000) than APIs in any other Region of the County, as well as high rates of CHD hospitalization (395 per 100,000), stroke hospitalization (180 per 100,000) and stroke ED discharge (39 per 100,000).



## Medical Encounters and Death Due to Chronic Disease, San Diego County, North Inland Region

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	723	134.1	<5	£	<5	£	91	33.1	632	950.9
Hospitalization	2,131	389.5	<5	£	<5	£	763	273.1	1,367	2014.9
ED Discharge	109	19.7	<5	£	<5	£	49	17.3	57	82.6
<b>Stroke†</b>										
Death	282	52.3	<5	£	<5	£	27	9.8	253	380.7
Hospitalization	1,199	219.1	<5	£	<5	£	281	100.6	916	1350.2
ED Discharge	224	40.5	<5	£	5	6.1	59	20.9	158	229.0
<b>Diabetes μ</b>										
Death	87	16.1	<5	£	<5	£	19	6.9	68	102.3
Hospitalization	501	91.6	33	27.6	32	39.9	253	90.6	183	269.7
ED Discharge	510	92.2	37	31.0	40	48.6	252	89.2	181	262.3
<b>COPDβ</b>										
Death	204	37.8	<5	£	<5	£	22	8.0	182	273.8
Hospitalization	475	86.8	<5	£	<5	£	103	36.9	367	541.0
ED Discharge	801	146.4	81	67.9	94	114.2	337	119.3	289	418.8
<b>Asthma α</b>										
Death	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	343	62.7	107	89.4	9	11.2	122	43.7	105	154.8
ED Discharge	1,056	190.9	394	330.2	162	196.8	421	149.0	79	114.5

	Total		Male		Female		White		Black		Hispanic		API/Other ††	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	723	134.1	379	143.6	344	125.0	664	202.1	<5	£	29	21.0	26	45.7
Hospitalization	2,131	389.5	1,411	525.8	720	258.3	1,716	519.9	21	198.1	166	116.1	228	395.2
ED Discharge	109	19.7	67	24.7	42	14.9	86	26.0	<5	£	8	5.5	13	20.1
<b>Stroke†</b>														
Death	282	52.3	114	43.2	168	61.1	251	76.4	<5	£	10	7.2	17	29.9
Hospitalization	1,199	219.1	549	204.6	650	233.2	961	291.2	25	235.8	109	76.3	104	180.3
ED Discharge	224	40.5	114	42.0	110	39.1	179	54.0	<5	£	18	12.3	25	38.6
<b>Diabetes μ</b>														
Death	87	16.1	52	19.7	35	12.7	59	18.0	<5	£	18	13.0	8	14.0
Hospitalization	501	91.6	261	97.3	240	86.1	299	90.6	23	216.9	138	96.6	41	71.1
ED Discharge	510	92.2	258	95.0	251	89.1	333	100.5	17	157.1	122	83.4	38	58.7
<b>COPDβ</b>														
Death	204	37.8	81	30.7	123	44.7	189	57.5	<5	£	5	3.6	10	17.6
Hospitalization	475	86.8	194	72.3	281	100.8	414	125.4	6	56.6	26	18.2	29	50.3
ED Discharge	801	146.4	316	116.4	484	171.8	554	167.2	24	221.8	139	95.0	84	129.8
<b>Asthma α</b>														
Death	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	343	62.7	139	51.8	204	73.2	211	63.9	17	160.3	80	56.0	35	60.7
ED Discharge	1,056	190.9	498	183.4	558	198.1	549	165.7	88	813.4	290	198.2	129	199.4

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHS), Community Health Statistics, 8/27/2007.

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\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

μ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

## **North Central Region**

The North Central Region in San Diego County covers 258 square miles of urban and suburban areas. The Region is bound to the West by the Pacific Ocean, and the Marine Corps Air Station Miramar is located to the East. In 2006 there were an estimated 567,255 residents with a population density of 4,052 persons per square mile. The communities of the North Central Region range from wealthy beach communities to poorer inland communities. Half of all residents were employed in management or professional occupations, one quarter were employed in sales and office, and another 13% in service jobs.

While the majority of residents are White, the North Central Region has large and distinct Asian communities, most of which are Filipino, Chinese and Vietnamese. It is estimated by CHIS that 17% of Asian residents of the Region were uninsured and just 48% visited a doctor's office when sick or needing health advice. One-third of Asian residents reported using a community clinic for care. As a comparison, 6% of Whites in the Region were estimated to be uninsured and 71% to have used a doctor's office as a usual source of care.

The greatest health disparities exist among the 20,000 Black residents of the North Central Region. CHIS estimates indicate that roughly half visited a doctor's office when sick or needing health advice. In 2006, more than 4,500 Black patients were treated and discharged from a San Diego County ED for all causes, including diabetes, asthma, COPD, arthritis and dorsopathies. Furthermore, Blacks were hospitalized at substantially higher rates for diabetes (201 per 100,000) and asthma (77 per 100,000) than any other racial/ethnic group in the North Central Region, which may be a reflection of low use of primary care providers for early disease intervention.

## Medical Encounters and Death Due to Chronic Disease, San Diego County, North Central Region

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	696	117.4	<5	£	<5	£	88	25.9	608	878.6
Hospitalization	1,974	332.7	<5	£	<5	£	637	186.5	1,336	1898.7
ED Discharge	130	21.7	<5	£	<5	£	47	13.7	83	116.1
<b>Stroke†</b>										
Death	252	42.5	<5	£	<5	£	19	5.6	233	336.7
Hospitalization	1,053	177.5	<5	£	<5	£	228	66.7	823	1169.6
ED Discharge	219	36.6	<5	£	<5	£	46	13.4	172	240.6
<b>Diabetes μ</b>										
Death	80	13.5	<5	£	<5	£	21	6.2	59	85.3
Hospitalization	361	60.8	15	14.7	20	25.2	172	50.3	154	218.9
ED Discharge	472	78.9	6	5.8	26	32.6	255	74.2	185	258.8
<b>COPDβ</b>										
Death	188	31.7	<5	£	<5	£	8	2.4	180	260.1
Hospitalization	417	70.3	<5	£	<5	£	79	23.1	337	478.9
ED Discharge	799	134.7	37	35.9	75	94.1	404	117.5	283	395.9
<b>Asthma α</b>										
Death	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	267	45.0	87	85.3	<5	£	93	27.2	83	118.0
ED Discharge	1,125	188.1	461	447.2	151	189.5	428	124.5	85	118.9

	Total		Male		Female		White		Black		Hispanic		API/Other ††	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	696	117.4	353	118.6	343	116.1	611	159.6	16	83.4	25	35.2	44	39.0
Hospitalization	1,974	332.7	1,338	448.3	636	215.6	1,592	417.8	36	185.8	103	143.0	243	213.6
ED Discharge	130	21.7	72	23.9	58	19.6	103	27.0	<5	£	9	12.3	14	11.4
<b>Stroke†</b>														
Death	252	42.5	95	31.9	157	53.1	212	55.4	7	36.5	14	19.7	19	16.8
Hospitalization	1,053	177.5	528	176.9	525	178.0	839	220.2	24	123.8	71	98.6	119	104.6
ED Discharge	219	36.6	96	31.9	123	41.5	197	46.8	<5	£	13	17.7	23	18.8
<b>Diabetes μ</b>														
Death	80	13.5	51	17.1	29	9.8	65	17.0	<5	£	6	8.4	6	5.3
Hospitalization	361	60.8	199	66.7	162	54.9	216	56.7	39	201.2	46	63.9	60	52.7
ED Discharge	472	78.9	259	85.9	213	71.8	305	79.8	33	164.2	69	94.0	65	53.1
<b>COPDβ</b>														
Death	188	31.7	79	26.5	109	36.9	177	46.2	<5	£	<5	£	7	6.2
Hospitalization	417	70.3	182	61.0	235	79.7	355	93.2	12	61.9	16	22.2	34	29.9
ED Discharge	799	134.7	364	120.8	435	146.6	564	147.6	34	169.2	79	107.6	122	99.7
<b>Asthma α</b>														
Death	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	267	45.0	109	36.5	158	53.6	177	46.5	15	77.4	29	40.3	46	40.4
ED Discharge	1,125	188.1	535	177.5	590	198.9	576	150.7	141	701.7	218	296.9	190	155.3

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

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£ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown.

\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

μ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

## Central Region

The Central Region in San Diego County is located on the San Diego Bay and includes downtown San Diego and outlying urban communities. In 2006 there were an estimated 480,538 residents of this densely populated region with nearly 10,000 persons per square mile. Residents of the Central Region are highly racially and ethnically diverse; 41% are Hispanic, 13% Black, and 13% Asian. The Asian population is mostly Filipino (54%), although there is a large percentage of Asian residents who are Vietnamese (20%) and Laotian (8%).

The Central Region is economically disadvantaged compared to the rest of the County. Nearly one quarter of all residents of the Central Region live in poverty, which is double the rate of any other San Diego County Region. Eight percent of the eligible work force is unemployed.

Infant mortality among all racial/ethnic groups was high in the Central Region in 2004 compared to other San Diego County Regions (6.0 per 1,000 live births), especially among Blacks (18.4 per 1,000 live births). Low birth weight births (7.4 per 1,000 live births) and very-low birth weight births (1.5 per 1,000 live births) were also higher in the Central Region compared to other areas of San Diego County. The percent of all live births to females ages 15 to 17 years (4.4%) was higher than San Diego County overall (2.7%), especially among Blacks (5.8%) and Hispanics (5.6%). Blacks in the Central Region had significantly poorer birth outcomes than any other racial/ethnic group. Just 81.8% of Black mothers received early prenatal care compared to 91.7% of White mothers.

The greatest health disparities were apparent among Black residents of the Central Region. Nearly two out of every five Black residents of the Central Region were treated and discharged from a San Diego County ED during 2006. Blacks have higher rates of ED discharge for chronic obstructive pulmonary disorder (755 per 100,000), asthma (1243 per 100,000), diabetes (459 per 100,000) and stroke (56 per 100,000) than any other racial/ethnic group in the Central Region, and higher rates of ED discharge for COPD (755 per 100,000), asthma (1243 per 100,000), diabetes (459 per 100,000), stroke (56 per 100,000) and coronary heart disease (512 per 100,000) than Blacks living in any other Region of San Diego County. Blacks were also hospitalized at higher rates than other racial/ethnic groups for asthma (279 per 100,000) and diabetes (284 per 100,000). The rate of stroke hospitalization among Blacks was notably high (297 per 100,000) compared to the rate for stroke hospitalization in the Region overall (197 per 100,000). Hospitalization rates among Black residents of the Central Region were higher for COPD (166 per 100,000), asthma (279 per 100,000), diabetes (284 per 100,000), stroke (297 per 100,000) and CHD (512 per 100,000) than Blacks living in any other Region of San Diego County. Blacks living in the Central Region had a higher rate of diabetes death (33 per 100,000) and stroke death (70 per 100,000) than any other racial/ethnic group living in the Central Region, and higher rates of lung cancer death (37.4 per 100,000), diabetes death (33 per 100,000), stroke death (70 per 100,000), and coronary heart disease death (181 per 100,000) than Blacks living in any other region.

## Medical Encounters and Death Due to Chronic Disease, San Diego County, Central Region

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	605	122.7	<5	£	<5	£	137	52.3	468	1135.3
Hospitalization	1,782	360.0	<5	£	<5	£	839	317.8	940	2246.6
ED Discharge	135	27.0	<5	£	<5	£	80	29.9	55	129.5
<b>Stroke†</b>										
Death	197	40.0	<5	£	<5	£	35	13.4	162	393.0
Hospitalization	977	197.4	<5	£	<5	£	372	140.9	599	1431.6
ED Discharge	153	30.6	<5	£	<5	£	61	22.8	92	216.7
<b>Diabetes μ</b>										
Death	101	20.5	<5	£	<5	£	28	10.7	72	174.7
Hospitalization	796	160.8	16	14.7	37	45.9	509	192.8	234	559.3
ED Discharge	1,015	203.3	17	15.7	33	40.8	736	274.9	229	539.4
<b>COPDβ</b>										
Death	145	29.4	<5	£	<5	£	18	6.9	127	308.1
Hospitalization	486	98.2	<5	£	<5	£	175	66.3	309	738.5
ED Discharge	1,672	337.7	265	244.5	144	178.2	956	357.1	307	723.1
<b>Asthma α</b>										
Death	7	1.4	<5	£	<5	£	<5	£	<5	£
Hospitalization	548	110.7	153	140.8	28	34.8	269	101.9	98	234.2
ED Discharge	2,401	480.9	978	902.4	330	408.5	958	357.9	135	318.0

	Total		Male		Female		White		Black		Hispanic		API/Other ††	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	605	122.7	365	146.2	240	98.7	327	235.5	121	181.0	100	50.6	57	65.5
Hospitalization	1,782	360.0	1,061	421.1	721	296.6	805	580.3	343	512.1	364	182.1	270	308.4
ED Discharge	135	27.0	83	32.6	52	21.2	71	51.0	20	29.7	33	16.2	11	12.3
<b>Stroke†</b>														
Death	197	40.0	75	30.0	122	50.2	91	65.5	47	70.3	32	16.2	27	31.0
Hospitalization	977	197.4	456	181.0	521	214.3	414	298.4	199	297.1	214	107.0	150	171.4
ED Discharge	153	30.6	66	25.9	87	35.5	58	41.7	38	56.5	35	17.2	22	24.6
<b>Diabetes μ</b>														
Death	101	20.5	43	17.2	58	23.9	30	21.6	22	32.9	28	14.2	21	24.1
Hospitalization	796	160.8	406	161.1	390	160.4	236	170.1	190	283.7	284	142.1	86	98.2
ED Discharge	1,015	203.3	531	208.6	484	197.7	296	212.6	309	459.4	305	150.0	105	117.3
<b>COPDβ</b>														
Death	145	29.4	67	26.8	78	32.1	107	77.1	15	22.4	11	5.6	12	13.8
Hospitalization	486	98.2	227	90.1	259	106.5	267	192.5	111	165.7	49	24.5	59	67.4
ED Discharge	1,672	337.7	816	320.6	856	349.7	596	428.1	508	755.2	431	212.0	137	153.1
<b>Asthma α</b>														
Death	7	1.4	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	548	110.7	229	90.9	319	131.2	129	93.0	187	279.2	170	85.0	62	70.8
ED Discharge	2,401	480.9	1,144	449.4	1,257	513.6	489	351.3	836	1242.8	849	417.6	227	253.6

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health &amp; Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health &amp; Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&amp;IC, CHIP, County of San Diego, Health &amp; Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health &amp; Human Services Agency (HHSA), Community Health Statistics, 8/27/2007.

£ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown.

\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

μ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

## **South Region**

The South Region in San Diego County covers 155 square miles of urban, suburban and rural areas. The region is bound to the West by the Pacific Ocean and to the South by the Mexican border. There are 2 California-Mexico border crossings through the South Region of San Diego County. In 2006 there were an estimated 464,201 residents of this region with a population density of 3,942 persons per square mile. Nearly 30% of all employed residents of the South Region work in sales in office and close to 20% work in the service industry. Seven percent are unemployed. One out of every four residents of this Region have less than a high school education. Fourteen percent of the population lives below the poverty level, and 10% do not have a vehicle available to them in their household.

As a border Region, more than half of the population is Hispanic, and 10% of all residents speak Spanish only. Both coronary heart disease and diabetes disproportionately affect Hispanics in the South Region. While the medical encounter and death rates were lower than those found among Whites, the rate of CHD death (75 per 100,000), hospitalization (31 per 100,000) and ED discharge (384 per 100,000) were higher than rates for Hispanics in other Regions of the County. Hispanics in the South Region also have higher rates of diabetes death (21 per 100,000), hospitalization (183 per 100,000) and ED discharge (199 per 100,000) than Hispanics living elsewhere in the County.

Another 12% of the South Region population is Asian; primarily Filipino with small communities of Korean and Chinese residents. CHD also disproportionately affects Asian/Pacific Islanders (API) in the South Region. The rate of CHD ED discharge (37 per 100,000) and hospitalization (521 per 100,000) among APIs was higher than rates for APIs in other Regions of San Diego County. Hospitalization for CHD among API was higher than that of the South Region overall (467 per 100,000). The API CHD death rate (100 per 100,000) was also higher in the South Region than elsewhere in the County. Asthma hospitalizations among APIs (73 per 100,000) were highest in the South Region compared to APIs throughout the County, as were asthma ED discharges (333 per 100,000). Additionally, stroke hospitalizations (242 per 100,000) and deaths (43 per 100,000) among API living in the South Region were high compared to the rates for Blacks or Hispanics.

There are approximately 21,000 Black residents of the South Region, 5,600 of whom were treated and discharged from the ED during 2006 for an illness or injury. The rate of ED discharge for diabetes was high for Blacks (318 per 100,000) as were hospitalizations (172 per 100,000). Maternal and child health outcomes are a concern among Blacks living in the South Region. Almost 15% of live births were preterm, 12% were low birth weight and 3% were very low birthweight births.

## Medical Encounters and Death Due to Chronic Disease, San Diego County, South Region

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	589	135.2	<5	£	<5	£	93	43.1	495	1120.5
Hospitalization	2,108	466.9	<5	£	<5	£	799	359.7	1,307	2867.2
ED Discharge	184	40.1	<5	£	<5	£	75	33.2	109	232.9
<b>Stroke†</b>										
Death	178	40.8	<5	£	<5	£	21	9.7	157	355.4
Hospitalization	1,090	241.4	6	5.8	6	7.4	296	133.3	782	1715.5
ED Discharge	195	42.5	<5	£	<5	£	52	23.0	140	299.2
<b>Diabetes μ</b>										
Death	94	21.6	<5	£	<5	£	20	9.3	73	165.3
Hospitalization	709	157.0	20	19.5	19	23.4	350	157.6	320	702.0
ED Discharge	822	179.3	17	16.3	22	27.1	469	207.3	314	671.0
<b>COPDβ</b>										
Death	118	27.1	<5	£	<5	£	11	5.1	107	242.2
Hospitalization	491	108.8	<5	£	<5	£	98	44.1	390	855.5
ED Discharge	1,324	293.3	331	317.1	136	167.7	540	238.7	317	677.4
<b>Asthma α</b>										
Death	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	306	67.8	99	96.5	9	11.1	98	44.1	100	219.4
ED Discharge	1,790	390.4	872	835.4	263	324.3	568	251.1	87	185.9

	Total		Male		Female		White		Black		Hispanic		API/Other ††	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	589	135.2	327	149.7	262	120.5	333	282.5	19	94.2	172	75.5	65	100.5
Hospitalization	2,108	466.9	1,249	547.0	859	385.0	805	662.7	53	246.5	908	384.4	342	520.5
ED Discharge	184	40.1	101	43.7	83	36.5	75	61.5	8	36.9	74	30.7	27	36.7
<b>Stroke†</b>														
Death	178	40.8	90	41.2	88	40.5	92	78.0	<5	£	58	25.5	28	43.3
Hospitalization	1,090	241.4	480	210.2	610	273.4	436	359.0	34	158.2	461	195.1	159	242.0
ED Discharge	195	42.5	101	43.7	94	41.4	80	65.6	10	46.1	78	32.3	27	36.7
<b>Diabetes μ</b>														
Death	94	21.6	48	22.0	46	21.2	34	28.8	<5	£	47	20.6	11	17.0
Hospitalization	709	157.0	390	170.8	319	143.0	164	135.0	37	172.1	433	183.3	75	114.1
ED Discharge	822	179.3	416	179.8	406	178.8	184	150.8	69	318.3	480	198.9	89	121.0
<b>COPDβ</b>														
Death	118	27.1	52	23.8	66	30.4	85	72.1	<5	£	23	10.1	8	12.4
Hospitalization	491	108.8	243	106.4	248	111.2	256	210.8	14	65.1	145	61.4	76	115.7
ED Discharge	1,324	293.3	562	242.9	762	335.5	386	316.4	88	405.9	663	274.8	187	254.3
<b>Asthma α</b>														
Death	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	306	67.8	127	55.6	179	80.2	83	68.3	23	107.0	152	64.3	48	73.0
ED Discharge	1,790	390.4	910	393.3	880	387.5	359	294.2	182	839.6	1,004	416.1	245	333.1

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHS), Community Health Statistics, 8/27/2007.

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\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

μ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

## **East Region**

The East Region in San Diego County is large region covering 1,111 square miles of urban, suburban, and remote areas. The region is bound to the East by Mount Laguna and to the South by the Mexican border, with 1 California-Mexico border crossing. In 2006 there were an estimated 457,760 residents of this region with a population density of 417 persons per square mile of land area. The communities of the East Region are largely diverse demographically, geographically, economically and socially. While two-thirds of the population is White, 20% are Hispanic, 5% Black, 4% Asian, and 5% Other, which includes Native American and Alaska Native. Several Indian Reservations are found within the East Region. Nearly one-third of employed residents work in sales and office jobs, and 16% work in service occupations. Ten percent of the population earns an income below the poverty level.

Chronic disease death and medical encounter rates were notably higher in the East Region compared to the rest of the County. Death rates were higher in the East Region for COPD (47 per 100,000), diabetes (23 per 100,000), stroke (53 per 100,000), colorectal cancer (18 per 100,000), lung cancer (52 per 100,000) and CHD (159 per 100,000). This is due in part to the older age of the East Region population. However, disparities exist between residents of differing race/ethnicity.

Compared to all of San Diego County, Hispanic East Region residents were hospitalized at high rates for asthma (87 per 100,000), COPD (67 per 100,000), diabetes (138 per 100,000), stroke (137 per 100,000), and CHD (238 per 100,000). The rate of ED discharge for each of these chronic diseases were also high for Hispanic residents of the East Region relative to the rest of the County.

Half of the Asian population living in the East Region are Filipino, 11% are Japanese and 10% are Chinese. While the chronic disease hospitalization rates among Asian East Region residents were comparable to the rest of the County, ED discharge rates were higher for asthma (299 per 100,000), COPD (172 per 100,000) and diabetes (119 per 100,000).

Blacks living in the East Region were treated and discharged from an emergency department for illness or injury at nearly double the rate of Hispanic or White East Region residents. One out of every three Blacks in the East Region was discharged from a San Diego County ED during 2006. The rate of asthma hospitalization among Black residents was more than double the rate for any other racial/ethnic group in this Region. Black East Region residents also had poorer birth outcomes than other racial/ethnic groups in the Region. Out of all live births in 2005, 18% were preterm, 11% were low birth weight and 2.3% were very low birth weight.



## Medical Encounters and Death Due to Chronic Disease, San Diego County, East Region

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>										
Death	725	159.1	<5	£	<5	£	125	52.1	599	1147.2
Hospitalization	2,132	468.6	<5	£	<5	£	875	364.0	1,255	2391.5
ED Discharge	140	30.9	<5	£	<5	£	62	25.8	78	148.1
<b>Stroke†</b>										
Death	242	53.1	<5	£	<5	£	26	10.8	216	413.7
Hospitalization	1,099	241.6	<5	£	5	7.5	345	143.5	745	1419.6
ED Discharge	215	47.4	<5	£	<5	£	78	32.5	135	256.4
<b>Diabetes μ</b>										
Death	104	22.8	<5	£	<5	£	19	7.9	85	162.8
Hospitalization	594	130.6	28	29.2	37	55.8	341	141.8	188	358.2
ED Discharge	660	145.6	26	27.7	34	51.0	408	169.9	192	364.6
<b>COPDβ</b>										
Death	214	47.0	<5	£	<5	£	18	7.5	196	375.4
Hospitalization	696	153.0	<5	£	<5	£	220	91.5	475	905.1
ED Discharge	1,050	230.8	66	70.3	57	85.5	490	204.1	437	829.8
<b>Asthma α</b>										
Death	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	412	90.6	110	114.9	11	16.6	182	75.7	109	207.7
ED Discharge	1,459	321.9	524	558.2	189	283.6	644	268.2	102	193.7

	Total		Male		Female		White		Black		Hispanic		API/Other ††	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease†</b>														
Death	725	159.1	370	167.2	355	151.5	644	212.0	21	89.4	43	48.5	17	43.8
Hospitalization	2,132	468.6	1,343	606.2	789	338.1	1,700	564.3	80	336.6	213	237.6	139	353.7
ED Discharge	140	30.9	85	38.5	55	23.7	117	39.2	<5	£	12	13.3	7	17.4
<b>Stroke†</b>														
Death	242	53.1	81	36.6	161	68.7	205	67.5	6	25.5	19	21.4	12	30.9
Hospitalization	1,099	241.6	497	224.3	602	257.9	865	287.1	45	189.4	123	137.2	66	167.9
ED Discharge	215	47.4	112	50.7	103	44.3	171	57.2	8	33.4	26	28.8	10	24.9
<b>Diabetes μ</b>														
Death	104	22.8	43	19.4	61	26.0	78	25.7	6	25.5	15	16.9	5	12.9
Hospitalization	594	130.6	344	155.3	250	107.1	375	124.5	58	244.1	124	138.3	37	94.1
ED Discharge	660	145.6	349	158.0	311	133.8	380	127.2	94	392.7	138	152.8	48	119.4
<b>COPDβ</b>														
Death	214	47.0	94	42.5	120	51.2	203	66.8	<5	£	5	5.6	5	12.9
Hospitalization	696	153.0	295	133.2	401	171.8	599	198.8	18	75.7	60	66.9	19	48.3
ED Discharge	1,050	230.8	485	219.6	565	243.1	771	258.0	86	359.3	124	137.3	69	171.6
<b>Asthma α</b>														
Death	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£	<5	£
Hospitalization	412	90.6	132	59.6	280	120.0	264	87.6	43	180.9	78	87.0	27	68.7
ED Discharge	1,459	321.9	648	293.4	809	348.1	762	255.0	254	1061.2	323	357.6	120	298.5

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 8/27/2007.

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†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

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β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

**Medical Encounters and Death Due to Chronic Disease, San Diego County**

	Total		0-14		15-24		25-64		65+	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease ‡</b>										
Death	4,019	133.4	<5	£	<5	£	629	39.7	3,388	1029.0
Hospitalization	12,055	396.6	<5	£	8	1.7	4,593	287.2	7,453	2226.6
ED Discharge	900	29.3	<5	£	<5	£	395	24.5	501	147.4
<b>Stroke †</b>										
Death	1,423	47.2	<5	£	<5	£	151	9.5	1,268	385.1
Hospitalization	6,393	210.3	16	2.5	22	4.7	1,754	109.7	4,601	1374.5
ED Discharge	1,382	45.1	7	1.1	14	3.0	410	25.4	951	279.8
<b>Diabetes µ</b>										
Death	531	17.6	<5	£	<5	£	124	7.8	405	123.0
Hospitalization	3,406	112.1	128	20.1	174	37.2	1,859	116.2	1,245	371.9
ED Discharge	4,173	136.1	126	19.7	210	44.4	2,491	154.2	1,346	396.1
<b>COPD β</b>										
Death	1,042	34.6	<5	£	<5	£	87	5.5	955	290.0
Hospitalization	2,908	95.7	8	1.3	8	1.7	759	47.5	2,133	637.2
ED Discharge	6,669	219.4	865	135.5	605	127.9	3,220	199.3	1,979	582.3
<b>Asthma α</b>										
Death	24	0.8	<5	£	<5	£	10	0.6	14	4.3
Hospitalization	2,087	68.7	605	95.0	71	15.2	864	54.0	547	163.4
ED Discharge	9,185	299.5	3,704	580.1	1,322	279.5	3,567	220.8	592	174.2

	Total		Gender				Race/Ethnicity							
	Number	Rate*	Male		Female		White		Black		Hispanic		API/Other ††	
			Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
<b>Coronary Heart Disease ‡</b>														
Death	4,019	133.4	2,157	143.5	1,862	123.3	3,190	202.8	195	122.0	407	47.6	227	56.5
Hospitalization	12,055	396.6	7,717	507.5	4,338	285.7	8,175	519.8	575	355.4	1,925	220.0	1,380	340.1
ED Discharge	900	29.3	513	33.4	387	25.3	607	38.5	43	26.3	161	18.1	89	20.5
<b>Stroke †</b>														
Death	1,423	47.2	560	37.3	863	57.1	1,087	69.1	70	43.8	153	17.9	113	28.1
Hospitalization	6,393	210.3	2,982	196.1	3,411	224.6	4,301	273.5	345	213.2	1,082	123.7	665	163.9
ED Discharge	1,382	45.1	655	42.7	726	47.4	966	61.3	73	44.6	209	23.4	134	30.8
<b>Diabetes µ</b>														
Death	531	17.6	270	18.0	261	17.3	311	19.8	37	23.2	126	14.7	57	14.2
Hospitalization	3,406	112.1	1,861	122.4	1,544	101.7	1,540	97.9	389	240.4	1,129	129.0	348	85.8
ED Discharge	4,173	136.1	2,167	141.1	2,005	130.9	1,888	119.7	580	354.2	1,299	145.7	406	93.4
<b>COPD β</b>														
Death	1,042	34.6	452	30.1	590	39.1	922	58.6	21	13.1	57	6.7	42	10.5
Hospitalization	2,908	95.7	1,274	83.8	1,634	107.6	2,190	139.3	166	102.6	317	36.2	235	57.9
ED Discharge	6,669	219.4	3,006	195.8	3,662	239.1	3,608	228.8	800	488.5	1,580	177.2	681	156.7
<b>Asthma α</b>														
Death	24	0.8	12	0.8	12	0.8	16	1.0	<5	£	<5	£	8	2.0
Hospitalization	2,087	68.7	809	53.2	1,278	84.2	998	63.5	301	186.0	542	61.9	246	60.6
ED Discharge	9,185	299.5	4,352	283.5	4,833	315.4	3,468	219.9	1,675	1022.8	2,988	335.2	1,054	242.5

Death Source: Death Statistical Master Files (CA DHS), County of San Diego, Health &amp; Human Services Agency, Community Epidemiology, 2004.

Hospitalization Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health &amp; Human Services Agency, Community Epidemiology, 2005.

ED Discharge Source: HASD&amp;IC, CHIP, County of San Diego, Health &amp; Human Services Agency, Emergency Medical Services, Emergency Department Database, FY05/06.

Population Source: SANDAG, Current Population Estimates, 9/27/2006.

Prepared by County of San Diego (CoSD), Health &amp; Human Services Agency (HHSA), Community Health Statistics, 8/27/2007.

£ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown.

\* Rates per 100,000 population.

†† API/Other includes Asian, Pacific Islanders, those reporting 2 or more race/ethnicities, other, or had missing information.

† Stroke ED discharge and hospitalization refers to principal diagnosis ICD-9 codes 430-438. Stroke death refers to ICD-10 codes I60-I69.

‡ Coronary Heart Disease ED discharge and hospitalization refers to ICD-9 codes 402, 410-414, 429.2. Coronary Heart Disease death refers to ICD-10 codes I11, I20-I25.

µ Diabetes ED discharge and hospitalization refers to ICD-9 code 250. Diabetes death refers to underlying cause only ICD-10 codes E10-E14.

α Asthma ED discharge and hospitalization refers to ICD-9 code 493. Asthma death refers to ICD-10 codes J45-J46.

β COPD ED discharge and hospitalization refers to ICD-9 codes 490-492, 496. COPD death refers to ICD-10 codes J40-J44, J47.

### **Listing of Maps:** (click on title to jump to map)

Coronary Heart Disease (CHD) Death Rates, 2004  
Coronary Heart Disease (CHD) Hospitalization Rates, 2004  
Coronary Heart Disease (CHD) Emergency Department Discharge Rates, FY 05/06

Stroke Death Rates, 2004  
Stroke Hospitalization Rates, 2004  
Stroke Emergency Department Discharge Rates, FY 05/06

Diabetes Death Rates, 2004  
Diabetes Hospitalization Rates, 2004  
Diabetes Emergency Department Discharge Rates, FY 05/06

Chronic Obstructive Pulmonary Disease (COPD) Death Rates, 2004  
Chronic Obstructive Pulmonary Disease (COPD) Hospitalization Rates, 2004  
Chronic Obstructive Pulmonary Disease (COPD) Emergency Department Discharge Rates, FY 05/06

(Asthma death rates too small to map at community level)  
Asthma Hospitalization Rates, 2004  
Asthma Emergency Department Discharge Rates, FY 05/06

### **Data Definitions:**

**Coronary Heart Disease (CHD):** ischemic and hypertensive heart disease.  
(This differs from diseases of the heart which include any disease or disorder of the heart, including both chronic and acute conditions). ICD-10 codes I11, I20-I25, ICD-9 CM codes 402, 410-414, 429.2

**Stroke:** cerebrovascular disease. ICD-10 codes I60-I69, ICD-9 CM codes 430-438

**Diabetes:** Diabetes Mellitus, includes insulin-dependent and non insulin-dependent Diabetes. ICD-10 codes E10-E14, ICD-9 CM codes 250  
(reminder: data here represent only underlying cause of death or principal diagnosis and do not include those where Diabetes was a contributing cause of death or hospitalization.)

**Chronic Obstructive Pulmonary Disease (COPD):** ICD-10 codes J40-44, 47, ICD-9 CM codes 490-492, 496.

**Asthma:** ICD-10 codes J45-J46, ICD-9 CM code 493

### **Data Sources:**

**Death Data** is based on underlying cause of death (not multiple causes) and uses ICD10 codes. Those included are residents of San Diego County with known zip code of residence. Source: Death

Statistical Master Files (CA Department of Public Health), County of San Diego, Health & Human Services Agency, Community Epidemiology.

**Hospital Data** is based on principal diagnosis and uses ICD9CM codes. Those included are residents of San Diego County with known zip code of residence. Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Epidemiology; SANDAG, Current Population Estimates, 9/27/2006.

**Emergency Department Discharge (ED DC) Data** is based on principal diagnosis and uses ICD9CM codes. ED discharges are those patients treated and discharged from the ED. Patients admitted to the hospital are not included here, but in the hospitalization data. Those included are residents of San Diego County with known zip code of residence. Source: HASD&IC, CHIP, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database.

**Population Data:** San Diego Association of Governments (SANDAG), Current Population Estimates, 9/27/2006.

Maps and rates prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Community Health Statistics Unit.

## **Other Place Matters Resources to Consider**

Possible map layers available by request (*italics, map layer not yet prepared*)

- Zoom in to Community Level
- Economic
  - Poverty
  - Unemployment
  - *Households with vehicle access*
  - *Home owners vs. renters*
- Social
  - Food options (grocery stores, restaurants fast food)
  - Schools (elementary, jr/middle, high school)
  - Libraries
  - Kid-attractors (places children might congregate)
- Physical:
  - Parks & Recreation sites
  - Public transportation (bus, trolley)
  - Roads (all, major, highways, freeways)
  - *Clean environment (air, water)*
  - *Safe neighborhoods/streets (pedestrian and motor vehicle injuries)*
  - Water bodies (ocean, lakes, rivers)
  - Boundaries (SRA-based Region, Community (SRA), census tract, HHSA Region, zip code)
- (Medical) Service:
  - Hospitals
  - Trauma Centers
  - Emergency Departments
  - Clinics

# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Coronary Heart Disease (CHD) Death Rates, 2004

### Legend

- HHSA Regions
- Community (SRA)

### CHD Death Rates, 2004

- 0.0 - 50.0
- 50.1 - 100.0
- 100.1 - 150.0
- 150.1 - 200.0
- 200.1 - 500.0

\*Rates per 100,000 population

Data Source: Death Statistical Master Files (CA DPH), CoSD, HHSA, Community Epidemiology; SANDAG, Current Population Estimates, 9/27/2006.

Prepared by: County of San Diego, HHSA, Public Health Services, Community Health Statistics Unit. June, 2008.

0 5 10 20 30 40 Miles



# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Coronary Heart Disease (CHD) Hospitalization Rates, 2004

### Legend

- HHSA Regions
- Community (SRA)

### CHD Hosp Rates, 2004

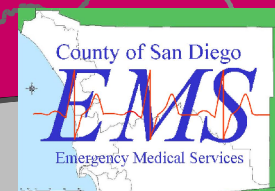
- 0.0 - 200.0
- 200.1 - 300.0
- 300.1 - 500.0
- 500.1 - 900.0
- 900.1 - 1300.0

\*Rates per 100,000 population

Data Source: Hospital Discharge Data,  
(CA OSHPD), CoSD, HHSA,  
Community Epidemiology;  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.

0 5 10 20 30 40 Miles



# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

**Coronary Heart Disease  
(CHD) Emergency Department  
Discharge Rates, FY05/06**

## Legend

- HHSA Regions
- Community (SRA)

## CHD, ED Dc Rates, FY05/06

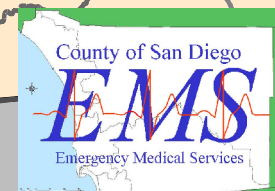
- 0.0 - 15.0
- 15.1 - 25.0
- 25.1 - 40.0
- 40.1 - 50.0
- 50.1 - 80.0

\*Rates per 100,000 population

Data Source: HASD&IC, CHIP,  
CoSD, HHSA, Emergency Medical  
Services, ED Database.  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.

0 5 10 20 30 40 Miles












# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Stroke Death Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

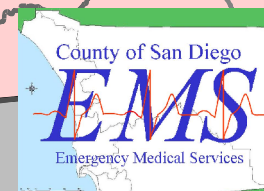
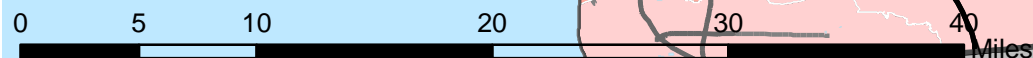
### Stroke, Death Rates, 2004

-  0.0 - 47.3
-  47.4 - 94.6
-  94.7 - 141.9
-  142.0 - 189.2
-  189.3 - 236.5

\*Rates per 100,000 population

Data Source: Death Statistical Master Files (CA DPH), CoSD, HHSA, Community Epidemiology; SANDAG, Current Population Estimates, 9/27/2006.


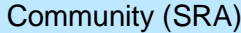
Prepared by: County of San Diego, HHSA, Public Health Services, Community Health Statistics Unit. June, 2008.








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Stroke Hospitalization Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

### Stroke, Hosp Rates, 2004

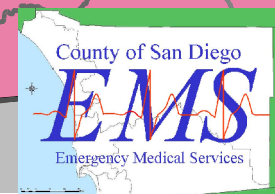
-  0.0 - 220.3
-  220.4 - 440.6
-  440.7 - 660.8
-  660.9 - 881.1
-  881.2 - 1101.4

\*Rates per 100,000 population

Data Source: Hospital Discharge Data,  
(CA OSHPD), CoSD, HHSA,  
Community Epidemiology;  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.


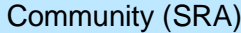
0 5 10 20 30 40 Miles








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

Stroke Emergency Department  
Discharge Rates, FY05/06

## Legend

-  HHSA Regions
-  Community (SRA)

## Stroke, ED Dc Rates, FY05/06

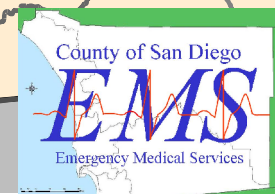
-  0.0 - 31.8
-  31.9 - 63.6
-  63.7 - 95.3
-  95.4 - 127.1
-  127.2 - 158.9

\*Rates per 100,000 population

Data Source: HASD&IC, CHIP,  
CoSD, HHSA, Emergency Medical  
Services, ED Database.  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.



0 5 10 20 30 40 Miles








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Diabetes Death Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

### Diabetes, Death Rates, 2004

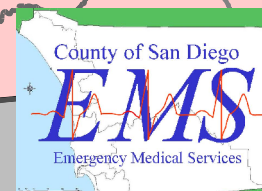
-  0.0 - 10.0
-  10.1 - 20.0
-  20.1 - 30.0
-  30.1 - 40.0
-  40.1 - 50.0

\*Rates per 100,000 population

Data Source: Death Statistical Master Files (CA DPH), CoSD, HHSA, Community Epidemiology; SANDAG, Current Population Estimates, 9/27/2006.

Prepared by: County of San Diego, HHSA, Public Health Services, Community Health Statistics Unit. June, 2008.

0 5 10 20 30 40 Miles


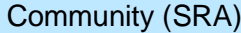









# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Diabetes Hospitalization Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

### Diabetes, Hosp Rates, 2004

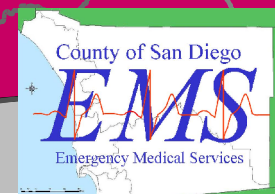
-  0.0 - 100.0
-  100.1 - 200.0
-  200.1 - 300.0
-  300.1 - 400.0
-  400.1 - 600.0

\*Rates per 100,000 population

Data Source: Hospital Discharge Data,  
(CA OSHPD), CoSD, HHSA,  
Community Epidemiology;  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.



0 5 10 20 30 40 Miles








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Diabetes Emergency Department Discharge Rates, FY05/06

### Legend

-  HHSA Regions
-  Community (SRA)

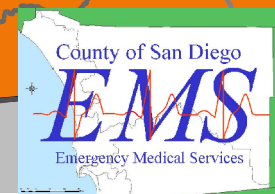
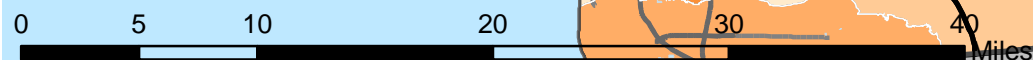
### Diabetes, ED Dc Rates, FY05/06

-  0.0 - 75.0
-  75.1 - 150.0
-  150.1 - 225.0
-  225.1 - 300.0
-  300.1 - 375.0

\*Rates per 100,000 population

Data Source: HASD&IC, CHIP,  
CoSD, HHSA, Emergency Medical  
Services, ED Database.  
SANDAG, Current Population  
Estimates, 9/27/2006.



Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Chronic Obstructive Pulmonary Disease (COPD) Death Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

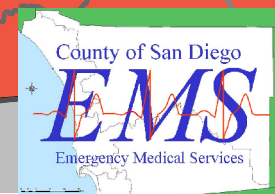
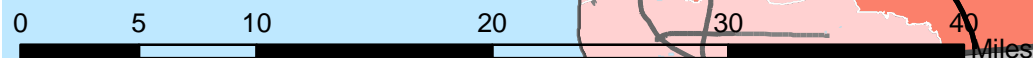
### COPD, Death Rates, 2004

-  0.0 - 20.0
-  20.1 - 40.0
-  40.1 - 60.0
-  60.1 - 100.0
-  100.1 - 160.0

\*Rates per 100,000 population

Data Source: Death Statistical Master Files (CA DPH), CoSD, HHSA, Community Epidemiology; SANDAG, Current Population Estimates, 9/27/2006.

Prepared by: County of San Diego, HHSA, Public Health Services, Community Health Statistics Unit. June, 2008.



# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Chronic Obstructive Pulmonary Disease (COPD) Hospitalization Rates, 2004

### Legend

- HHSA Regions
- Community (SRA)

### COPD, Hosp Rates, 2004

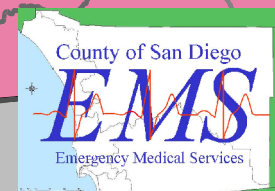
- 0.0 - 50.0
- 50.1 - 100.0
- 100.1 - 150.0
- 150.1 - 200.0
- 200.1 - 300.0

\*Rates per 100,000 population

Data Source: Hospital Discharge Data,  
(CA OSHPD), CoSD, HHSA,  
Community Epidemiology;  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.

0 5 10 20 30 40 Miles





# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Chronic Obstructive Pulmonary Disease (COPD) Emergency Department Discharge Rates, FY05/06

### Legend

- HHSA Regions
- Community (SRA)

### COPD, ED Dc FY05/06

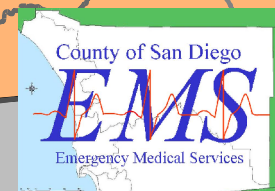
- 0.0 - 100.0
- 100.1 - 200.0
- 200.1 - 300.0
- 300.1 - 400.0
- 400.1 - 500.0

\*Rates per 100,000 population

Data Source: HASD&IC, CHIP,  
CoSD, HHSA, Emergency Medical  
Services, ED Database.  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.



0 5 10 20 30 40 Miles








# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Asthma Hospitalization Rates, 2004

### Legend

-  HHSA Regions
-  Community (SRA)

### Asthma, Hosp Rates, 2004

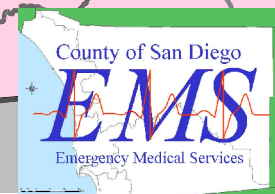
-  0.0 - 30.0
-  30.1 - 60.0
-  60.1 - 90.0
-  90.1 - 120.0
-  120.1 - 160.0

\*Rates per 100,000 population

Data Source: Hospital Discharge Data,  
(CA OSHPD), CoSD, HHSA,  
Community Epidemiology;  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.

0 5 10 20 30 40 Miles



# Selected Chronic Disease Medical Encounter Rates, San Diego County by Community

## Asthma Emergency Department Discharge Rates, FY05/06

### Legend

- HHSA Regions
- Community (SRA)

### Asthma, ED Dc Rates, FY05/06

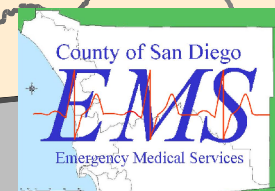
- 0.0 - 100.0
- 100.1 - 400.0
- 400.1 - 750.0
- 750.1 - 1200.0
- 1200.1 - 1600.0

\*Rates per 100,000 population

Data Source: HASD&IC, CHIP,  
CoSD, HHSA, Emergency Medical  
Services, ED Database.  
SANDAG, Current Population  
Estimates, 9/27/2006.

Prepared by: County of San Diego,  
HHSA, Public Health Services,  
Community Health Statistics Unit.  
June, 2008.

0 5 10 20 30 40 Miles



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(619) 285-6479

For more detailed explanation of methods and sources,  
see online Community Profiles at  
[www.sdhealthstatistics.com](http://www.sdhealthstatistics.com)